

Proposed claims 09/005,711

Please cancel claims 12-22. Please add new claims 23 and 24

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23. (New) A method for measuring activity of a protein that transports substances among donor/acceptor substances comprising

- (a) obtaining a sample comprising said protein
- (b) incubating said sample with (i) a donor substance labeled with a light emitter wherein light emitted from said light emitter increases with increasing activity of said protein and (ii) an acceptor dependent concentration light emission intensity quencher, wherein quenching of said light emission intensity increases with concentration of acceptor present in said sample and
- (c) detecting light emission intensity to determine activity of said protein.

24. (New) A method for measuring activity of a protein that transports substances among donor/acceptor substances comprising

- (a) obtaining a sample comprising said protein
- (b) incubating said sample with (i) a donor substance labeled with a light emitter wherein light emitted from said light emitter increases with increasing activity of said protein and (ii) an acceptor or protein dependent concentration light emission intensity quencher, wherein quenching of said light emission intensity increases with concentration of acceptor or protein present in said sample and
- (c) detecting light emission intensity to determine activity of said protein.